

Title (en)

Airblast fuel atomization system

Title (de)

Druckluftzerstäubersystem für Brennstoff

Title (fr)

Système d'atomisation de carburant par air comprimé

Publication

**EP 1245900 A2 20021002 (EN)**

Application

**EP 02252319 A 20020328**

Priority

US 82314901 A 20010330

Abstract (en)

An airblast fuel injector assembly (10) for use in conjunction with a gas turbine is disclosed which includes an elongated tubular body having first and second concentric tubes (12, 14) separated from one another by a helical spacer wire (16) so as to define a fuel passage (18) therebetween. The injector assembly is situated in a fuel nozzle (20) such that fuel flow exiting the fuel passage is intersected by an air flow at a predetermined angle of incidence so as to atomize the fuel flow. <IMAGE> <IMAGE>

IPC 1-7

**F23D 11/10**

IPC 8 full level

**F23R 3/28** (2006.01); **F23D 11/00** (2006.01); **F23D 11/10** (2006.01); **F23D 11/38** (2006.01)

CPC (source: EP US)

**F23D 11/103** (2013.01 - EP US); **F23D 11/107** (2013.01 - EP US); **F23D 11/383** (2013.01 - EP US); **F05B 2220/50** (2013.01 - EP US)

Cited by

DE102009010604B4; DE102008026459A1; EP1806535A1; FR2896031A1; FR2865525A1; GB2410321B; DE102005002527B4; CN104344405A; US8033114B2; US6886342B2; WO2004055434A1; US7043922B2; US8015816B2; US8443608B2

Designated contracting state (EPC)

CH DE FR GB LI SE

DOCDB simple family (publication)

**EP 1245900 A2 20021002**; **EP 1245900 A3 20030507**; **EP 1245900 B1 20101103**; CA 2379312 A1 20020930; CA 2379312 C 20070724; DE 60238159 D1 20101216; EP 1992875 A2 20081119; EP 1992875 A3 20140430; EP 1992875 B1 20181121; JP 2002327921 A 20021115; RU 2002107872 A 20031110; US 2002139121 A1 20021003; US 6539724 B2 20030401

DOCDB simple family (application)

**EP 02252319 A 20020328**; CA 2379312 A 20020327; DE 60238159 T 20020328; EP 08013620 A 20020328; JP 2002098491 A 20020401; RU 2002107872 A 20020328; US 82314901 A 20010330